



State of Alaska  
Department of Fish and Game  
Habitat and Restoration Division

Nomination for Waters  
Important to Anadromous Fish

Region SOUTHCENTRAL

USGS Quad Kenai C-2

Anadromous Water Catalog Number of Waterway 244-30-10010-2063-3025-4015 & 4015-0002

Name of Waterway Grebe Lake & Outlet stream ☒ USGS Name ☐ Local Name

☒ Addition ☐ Deletion ☐ Correction ☐ Backup Information

For Office Use

Nomination # <u>01 183</u>	<u>[Signature]</u> Regional Supervisor Date <u>11/10/99</u>
Revision Year: <u>2001</u>	<u>[Signature]</u> AWC Project Biologist Date <u>7/13/01</u>
Revision to: Atlas _____ Catalog _____ Both <u>X</u>	<u>[Signature]</u> Drafted Date <u>12/4/01</u>
Revision Code: <u>[Redacted] A2</u>	

OBSERVATION INFORMATION

Species	Date(s) Observed	Spawning	Rearing	Present	Anadromous
Coho	8/28 - 29/1985		X		<input checked="" type="checkbox"/>
Rainbow Trout	8/28 - 29/1985			X	<input type="checkbox"/>
Longnose Sucker	8/28 - 29/1985			X	<input type="checkbox"/>
Sockeye Salmon	8/28 - 29/1985			X	<input checked="" type="checkbox"/>
Dolly Varden	8/28 - 29/1985			X	<input type="checkbox"/>

**IMPORTANT:** Provide all supporting documentation that this water body is important for the spawning, rearing or migration of anadromous fish, including: number of fish and life stages observed; sampling methods, sampling duration and area sampled; copies of field notes; etc. Attach a copy of a map showing location of mouth and observed upper extent of each species, as well as other information such as: specific stream reaches observed as spawning or rearing habitat; locations, types, and heights of any barriers; etc.

Comments:

Add Grebe Lake and outlet stream with species Sockeye present and coho rearing based on historic USFWS sampling, see attached report excerpts.

Name of Observer (please print): USFWS Kenai Fisheries Research Staff

Signature: \_\_\_\_\_

Date: 7/11/01

Address: USFWS Kenai Fishery Resource Office

P.O. Box 1670, Kenai, AK 99611

This certifies that in my best professional judgment and belief the above information is evidence that this waterbody should be included in or deleted from the Catalog of Waters Important for Spawning, Rearing or Migration of Anadromous Fishes per AS 16.05.870.

Signature of Area Biologist: \_\_\_\_\_ Revision 3/97



Table . Grebe Lake (KNWR) fish sampling, catch, and effort summary for August 28-29, 1985 sampling trip.

Gear	Average Fishing Time (hrs.)	Amount Gear (sq.ft.)	Fish Species	Total Fish Number	Sex M-F-U*	Fish Caught Per Trap Hour	Overnight Catch/Trap
4 experimental mesh gill nets	11.5	3200	Coho salmon	30	0-0-30	.66	--
			Rainbow trout	26	6-5-15	.57	--
			Sockeye salmon	13	8-4-1	.29	--
			Kokanee salmon	5	2-0-3	.11	--
			Longnose sucker	15	3-1-11	.33	--
			All Species	89		1.96	--
2 fine mesh gill net	10.5	1000	Coho salmon	38	1-0-37	1.78	--
			Rainbow trout	2	0-1-1	.09	--
			Sockeye salmon	4	0-0-4	.19	--
			Threespine stickleback	26	0-0-26	1.23	--
			Dolly Varden char	1	0-0-1	.004	--
			All Species	71		3.29	--
16 minnow traps	20	--	Threespine stickleback**	2386	0-0-2386	--	149
			Coho salmon	86	0-0-86	--	5
			Slimy sculpin	1	0-0-1	--	<1
			All Species	2473		--	155

\*Undetermined

\*\*not all stickleback were examined for species

Table . Length, weight, and condition factor\* for fish sampled from Grebe Lake (KNWR) during August 28-29, 1985 survey.

Gear	Species		Sample Size	Mean	Standard Deviation	Range
4 Experimental Mesh Gill Nets	Rainbow trout	Length (mm)	24	422	53.1	260 - 480
		Weight (g)		974	315.6	225 - 1520
		Condition		1.25	.10	1.04 - 1.56
	Sockeye salmon (adult)	Length (mm)	12	535	38.0	455 - 575
		Weight (g)		1910	370.2	1160 - 2475
		Condition		1.23	.09	1.05 - 1.37
	Kokanee salmon	Length (mm)	4	237	16.4	222 - 260
		Weight (g)		176	41.8	126 - 211
		Condition		1.32	.21	1.15 - 1.62
	Longnose sucker	Length (mm)	13	446	32.3	380 - 490
		Weight (g)		1094	195.6	750 - 1350
		Condition		1.22	.08	1.12 - 1.37
	Sockeye salmon (juvenile)	Length (mm)	1	126	-	126
		Weight (g)		22.4	-	22.4
		Condition		1.12	-	1.12
1 Fine Mesh Gill Net	Coho salmon	Length (mm)	20	98.0	25.5	55 - 191
		Weight (g)		13.2	16.62	1.8 - 81.3
		Condition		1.11	.09	.95 - 1.29
	Rainbow trout	Length (mm)	1	490	-	490
		Weight (g)		1300	-	1300
		Condition		1.10	-	1.10
	Dolly Varden <del>char</del>	Length (mm)	1	111	-	111
		Weight (g)		11.9	-	11.9
		Condition		.87	-	.87
	Sockeye salmon	Length (mm)	3	104	5.9	100 - 111
		Weight (g)		12.2	2.4	10.0 - 14.7
		Condition		1.07	.07	1.00 - 1.13

\*Condition factor = (weight x 100,000)/length<sup>3</sup>



Adel Stream 244-30-10010-2063-3025-4015  
Lake 4015-0002 w/ CO<sub>2</sub>S<sub>p</sub>

